

# **Abstract of the bachelor's thesis**

Title: Non-life Underwriting Risk in Solvency II - Undertaking Specific Parameters

Author: Barbora Šimková

Department: Department of Probability and Mathematical Statistics

Supervisor: RNDr. Ing. Iva Justová Ph.D.

Abstract: The thesis deals with methods by which it is possible to calculate specific estimate of standard deviation of risk in non-life premium risk. Premium risk is the risk caused by lack of insurance, when the undertaking does not have sufficient cover for future losses. Calculation methods are based on static methods and they comprise the knowledge taught at MFF UK. The thesis analyzes methods of calculating specific parameters and it explains how to calculate capital requirement for non-life premium and reserve risk; capital requirement reflects parameters of risk. An assessment of capital requirements that uses specific parameters for an undertaking is in conclusion of the thesis. The evaluation is performed on a group of insurance companies from different countries that used replacement of specific parameters in the calculation of risk premiums in Solvency II.

Keywords: non-life underwriting risk, Solvency II, undertaking specific parameters